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PATENT COOPERATION TREATY



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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

							
Applicant's or agent's file reference P610824/WO/1	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)						
International application No.	International filing date (day/r	nonth/year)	Priority date (day/month/year)				
PCT/EP2003/014215	13 December 2003 (13	.12.2003)	27 March 2003 (27.03.2003)				
International Patent Classification (IPC) or national classification and IPC B64C 27/33							
Applicant EUROCOPTER DEUTSCHLAND GMBH							
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. This REPORT consists of a total of sheets, including this cover sheet. This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheets. 							
3. This report contains indications relating to the following items:							
I Basis of the report							
II Priority							
III Non-establishment o	of opinion with regard to novelty	y, inventive st	ep and industrial applicability				
Lack of unity of inve							
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
VI Certain documents c							
VII Certain defects in the							
VIII Certain observations on the international application							
Date of submission of the demand		Date of completion of this report					
28 September 2004 (28.09.2004)		31 May 2005 (31.05.2005)					
Name and mailing address of the IPEA/EP	Author	Authorized officer					
Facsimile No.		Telephone No.					

Form PCT/IPEA/409 (cover sheet) (July 1998)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP2003/014215

I. Basis	s of the re	eport			
1. With	regard to	o the elements of the international application:*			
		ernational application as originally filed			
	the des	cription:			
	pages	- 1-9 as originally filed			
	pages	, as originally filed			
	pages	, filed with the letter of			
	the clai				
	pages	• • •			
	pages	1-15 , as originally filed			
f	pages	, as amended (together with any statement under Article 19			
	•	, filed with the demand			
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	the drav	vings:			
	pages pages	, as originally filed			
	pages -	, filed with the demand			
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L t	he sequer	nce listing part of the description:			
	pages _	, as originally filed			
	pages _	filed with the demand			
	pages _	, filed with the letter of			
These	the lange the lange or 55.3). regard the lange or 55.3). regard the lange containe filed toge furnished furnished the state internation. The state been furnished the state of	to any nucleotide and/or amino acid sequence disclosed in the international application, the international amination was carried out on the basis of the sequence listing: d in the international application in written form. ether with the international application in computer readable form. d subsequently to this Authority in written form. d subsequently to this Authority in computer readable form. ement that the subsequently furnished written sequence listing does not go beyond the disclosure in the onal application as filed has been furnished. ement that the information recorded in computer readable form is identical to the written sequence listing has hished.			
*[the	ndments have resulted in the cancellation of: e description, pagese e claims, Nose e drawings, sheets/fig			
	•	t has been established as if (some of) the amendments had not been made, since they have been considered to go e disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**			
Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).					
₹ Any rep	lacement	sheet containing such amendments must be referred to under item 1 and annexed to this report.			

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP 03/14215

NO

v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
1.	Statement							
	Novelty (N)	Claims	2-15	YES				
		Claims	1	NO				
	Inventive step (IS)	Claims	2-15	YES				
		Claims	1	NO				
	Industrial applicability (IA)	Claims	1-15	YES				

2. Citations and explanations

This report makes reference to the following document:

Claims

D1: US-A-5 358 381 (COVINGTON CECIL E ET AL)
25 October 1994

- The present application does not meet the requirements of PCT Article 33 because the subject matter of claim 1 is not novel within the meaning of PCT Article 33(2).
- 2.1 D1 (see figure 8; the references in parentheses are to this document) shows a torsional element (5) for a bearingless rotor (1), said element being principally made of fibrous composite material (see column 3, lines 1-2), said element having an essentially symmetrical, flattened cross section approximating to the outline of a horizontal, central section of a double cone.

Therefore, all the features of claim 1 are known from D1.

3. The combination of features contained in dependent

claim 2 is neither known from nor suggested by the
available prior art. The reasons are:

- 3.1 D1, which represents the closest prior art (see figure 8), discloses all the features of claim 1 (see also paragraph 2.1 above).
- 3.2 The problem addressed by the present invention may therefore be considered that of providing a compact torsional element which possesses a high degree of resistance to swivelling and low torsional resistance and also possesses a high degree of torsional strength.
- of the torsional element is formed by two similar groups of webs (S1-S6) laterally opposite each other, the webs (S1-S6) of each similar group (S1-S3 and S4-S6) radiating from a common thin root area (4), which forms a central segment of the cross section of the torsional element and from which the webs (S1-S6) of both groups extend, and being arranged one above the other and mutually separated by narrow intermediate fissures (6). Each web (S1-S6) increases in thickness towards the free lateral side edges of the torsional element (2).

The subject matter of claim 2 is therefore novel (PCT Article 33(2)) and involves an inventive step (PCT Article 33(3)).

4. The remaining claims (claims 3-15) would, if dependent on claim 2, thus likewise meet the PCT requirements for novelty and inventive step.

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5. Summary

Claim 1 does not meet the requirements of PCT Article 33(1).

Claims 2-15 apparently meet the requirements of PCT Article 33(1).